ABSTRACT

A data replication system having a redundant configuration including dual Fibre Channel fabric links interconnecting each of the components of two data storage sites, wherein each site comprises a host computer and associated data storage array, with redundant array controllers and adapters. The system employs the grouping of logical units into 'association sets', for logging and failover purposes. The concept of association sets allows the system provides for proper ordering of I/O operations during logging across multiple volumes. In addition, association sets are employed by system to provide failure consistency by causing the group of logical units/volumes to all fail at the same time, ensuring a point in time consistency on the remote site.